

## **ABSTRACT**

### **EFFECTIVENESS OF USING VIDEO IN THE LEARNING OF COMPUTER HARDWARE ASSEMBLING CLASS XII INDUSTRIAL ELECTRONICS IN SMK NEGERI 2 WONOSARI**

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This study aims to determine the effectiveness of video in the learning materials and computer hardware assembling to know the difference student learning outcomes before and after using video in class XII Industrial Electronics SMKN 2 Wonosari.

This research was conducted in November 2010 until December 2010. Type research is kind of population research because the sample size research take the entire population of the entire class XII students of Industrial Electronics, this population is 35 students. Research's method is *Pre-Experimental Designs* and using *One-Group Pretest-Posttest Design*. This method aims to determine the effect of a treatment in the learning process. The media used is a CD video tutorial "*Merakit Komputer Untuk Orang Awam*." Data collection techniques used in this research using a pretest and posttest. Validation of research instruments is through expert opinions (judgments) and then tested through a pretest on students majoring in Industrial Electronics XII SMK N 2 Wonosari. Data analysis techniques used to analyze the research data is to be tested in *SPSS 17 for Windows*.

Based on a research known to increase learning outcomes after a given treatment using video CD Tutorial is from 63.97 (mean pretest) to 76.37 (mean posttest). Results mastery learning after using video media tutorial CD reaches 71.42% which means that these results exceeded the minimum limit of 65% so that concluded video media Tutorial CD "*Merakit Komputer Untuk Orang Awam*" not yet effective in learning to use the lessons of computer hardware assembling class XII Industrial Electronics SMK Negeri 2 Wonosari.

**Keywords:** effectiveness, video, computer hardware assembling.